

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David R. Dilley, Dina K. Kadyrzhanova,  
Zhenyong Wang and Toni M. Warner

For : MODIFIED SYNTHETASES TO PRODUCE PENICILLINS  
AND CEPHALOSPORINS UNDER THE CONTROL OF  
BICARBONATE

Hon. Commissioner of Patents and Trademarks

Washington, D. C. 20231

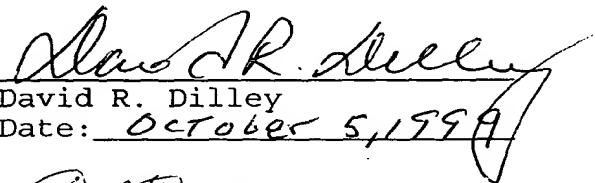
Sir:


INFORMATION STATEMENT UNDER  
RULE 1.97 and 1.98

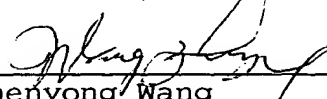
Provided herewith are copies of patents and publications as listed in the attached form PTO-1449. A concise explanation of the relevance of each reference listed in form PTO-1449 is contained in the above-captioned specification as filed.

Applicant respectfully asserts that the substantive provisions of 37 CFR 1.97 and 37 CFR 1.98 are met by the provision of the foregoing statement.

Respectfully,

  
David R. Dilley  
Date: October 5, 1999

  
Dina K. Kadyrzhanova  
Date: October 6, 1999

  
Zhenyong Wang  
Date: 10/6/99



Toni M. Warner

Date: \_\_\_\_\_

*Ian C. Leod*

Ian C. McLeod, Attorney  
Registration No. 20,931

Date: \_\_\_\_\_

*10/5/99*

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	
				Filing Date	
				First Named Inventor	David R. Dilley et al
				Group Art Unit	
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	MSU 4.1-453

[illegible][illegible]

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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			Application Number	
			Filing Date	
			First Named Inventor	David R. Dilley et al
			Group Art Unit	
			Examiner Name	
Sheet	2	of	3	Attorney Docket Number
				MSU 4.1-453

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AA 2	Perry et al., Biochem. J. 255:345-351 (1988).	
	AB 2	Zhang et al. Biochem. 36:15999-16007 (1997).	
	AC 2	Kadyrzhanova et al. in Biology and Biotechnology of the Plant Hormone Ethylene (1997).	
		Kanellis et al, (eds!), Kluwer Academic Publishers, Netherlands, pp. 5-13.	
	AD 2	Hegg and Que, Eur. J. Biochem. 250:625-629 (1997).	
	AE 2	Campbell et al. in Curr. Genet. 16:53-56 (1989).	
	AF 2	Bird and Bradshaw in Mol. Gen. Genet. 255:219-225 (1997).	
	AG 2	Sanchez et al. in Mol. Gen. Genet. 258:89-94 (1998).	
	AH 2	Sambrook et al. (eds.) Molecular Cloning: A Laboratory Manual, Second Ed. Cold Spring Harbor Lab. Press (1989).	
	AI 2	Hsiung et al., Nuc. Acid Res. 11:3227 (1983).	
	AJ 2	Narang et al., Methods in Enzymology 68:90 (1979).	

Examiner Signature		Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached

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				Application Number	
				Filing Date	
				First Named Inventor	David R. Dilley et al
				Group Art Unit	
				Examiner Name	
Sheet	3	of	3	Attorney Docket Number	MSU 4.1-453

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